

Kinetics of the Oxidative Conversion of Hydrocarbons
in the Liquid Phase, by B. G. Freidin, 6 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XXXI, No 6, 1958,
pp 881-886.

Consultants Bureau

Sci - Chem

Jun 59

89,651

✓
Effect of Adding Boric Acid Upon Oxidation of
Hydrocarbons in the Liquid Phase, by B. G.
Freidin, 3 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXVII, No 12,
Dec 1954, pp 1327-1329. CIA C 42155.

Consultants Bureau

Sci - Chemistry

35,223

Jun 1956/Dex

The Sequence of Hydrogenation of the Double Bonds in
Cyclopentadiene Over Pd- and Pt-Black, by L. Kh.
Freidin, B. D. Polkovnikov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 1, 1957,
pp 83-.

Consultants Bureau

Sci - Chemistry
Jul 58

66,750

47
Electrical Conductivity of Dry Lacquer/Paint
Films and the Potentials Generated on Films
Coated in an Electric Field, by M. M. Freidin.
RUSSIAN, per, Lakokrasochnye Materialy i ikh
Primeneniye, No 6, 1964, pp 26-31.
NRC-69-16837-07D

M. M. Freidin

Sci-Chem
Feb 70

402,2931

Freidin, M. M.
THE EFFECT OF THE HIGH-VOLTAGE CURRENT
SUPPLY SOURCES ON THE ELECTROSTATIC
SPRAYING OF PAINTS. May 63, 1100 words.
Order from TTIS \$12.00 TTIS NS 69

Trans. of Lakokrasochnye Materialy i Ikh Primeneniye
(USSR) 1962, no. 1, p. 54-56.

DESCRIPTORS: *Electric potential, Electric currents,
*Electric power production, *Sprays, Electrostatics,
Paints. ●

(Materials--Paints, TT, v. 10, no. 2)

63-17379

- I. Title: Electrostatic
spraying
1. Freidin, M. M.
II. TTIS-NS-69
III. Translation and Technical
Information Services,
(Oz. Brit.)

A239735

Office of Technical Services

~~SYNTH~~ Synthesis of Unsymmetrical Sulfides Contain-
ing Functional Groups, by R. G. Petrova, R. Kh. Freidina,
5 pp.

RUSSIAN, per, Iz Ak Nauk SSR, Otdel Khim Nauk, No 1,
1962, pp 59-64.

CB

Sci

214,578

Aug 62

Labyrinth Rugs for Aggressive Media, by A. I.
Golubov, G. M. Pavlovskiy.

~~SECRET~~
KREMLIN, prs, Izv. Mosk, No 2, 1961, pp 518-519.

Sci - Chem
Aug 62
List 71

~~SECRET~~
U. S. Atomic Energy Authority
Hialeah, TMO-Inf-Ser-162(W)

206,111

Separation of Terephthalic and Isophthalic Acids by
Extraction with Hot Methanol
By G. N. Freidlin and V. N. Davydov pp. 5

RUSSIAN, per, Zhur Prik Khim, Vol XXV, No 11, 1962,
pp. 2520 - 2525

CB

Sci

240-935

Oct 63

Investigation of the Vapor-Phase Hydrolysis of
Chlorobenzene in Presence of a Phosphate Catalyst,
I. M. Freidlin, A.A. Balandin, G.A. Fridman, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 11, 1957, pp 1328-1332

Consultants Bureau

Sci - Chem

May 59

86,997

Kinetics of the Catalytic Reduction of Organic Peroxides and Hydroperoxides, Communication 1. Hydrogenation of α,α -Dimethylbenzyl Hydroperoxide, α,α -Dimethylbenzyl Ethyl Peroxide, and 1.2.3.4.-Tetrahydro-1 Naphthyl Hydroperoxide, by A.A. Balandin, I. Kh. Freidlin, E.V. Nikiforova, 8 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk, No 4, 1957, pp 443-450.

Consultants Bureau

Sci - Chem
May 59

87,207

The Change in Phagocytic Activity and in Certain
Cytochemical Reactions of the Leukocytes of
Guinea-Pig Peritoneal Exudate During Immunization,
by I. S. Freidlin, 3 pp.

RUSSIAN, per, Byul Eksper Biol i Medit, Vol LII,
No 9, 1961, pp 80-82.

CB

Sci

202,780

JUL 62

Preparation of p-Xylylenediamine by the Catalytic
Reduction of Terephthalonitrile, by K. L. Friedlin,
A. A. Balandin, T. Bladkova, 5 pp.

RUSSIAN, Dok Ak Nauk SSSR, Vol CXII, pp 880-881,
1957.

SIA R-1650

Sci - Chem
Aug 58

70,524

Study of the Stepwise Dehydration of 1,6-Hexanediol on Tricalcium Phosphate Catalyst, by L. K. Freidlin, V. Z. Sharf, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1961, pp 373-375.

CB

Sci

198,899

Jun 62

Effect of Very High Pressures on the Catalytic Activity of Aluminum Oxide, by L. F. Vereshchagin, L. K. Freidlin, A. M. Rubinshtein and I. U. Numanov, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 6, 1951, pp 809-818.

Assoc Tech Serv
RJ-129

Sci

Aug 58

72,560

41
Zinc Catalysis of Hydrogenation Reactions, by
L. Kh. Freidlin.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 131, No 5,
1960, pp 1109-1112.
ATB BJ-5170

L. Kh. FREIDLIN

Sci-Chem
July 69

385,745

Freidlin, L. Kh. and Lebedeva, A. I.
THE INTERACTION OF SODAMIDE WITH THE
SALTS OF ORGANIC ACIDS. [1964] 13p 31refs
Order from OTS, SLA, or ETC \$1.60 TT-64-14699

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1939, v. 9,
p. 996-1006.

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-14699

I. Freidlin, L. Kh.
II. Lebedeva, A. I.

384997

Office of Technical Services

Dehydration of α -Methylcyclopropanemethanol in
Presence of Acidic Catalysts

By L. Kh. Ereidlin, V. Z. Sharf (p. 6)

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1962, pp. 1843-1849

CB

Sci

Aug 63

343,043

Mechanism of the Formation of Secondary and Tertiary Amines in the Course of the Catalytic Hydrogenation of Adiponitrile to 1,6-Hexanediamine, by L. Kh. Freidlin, T. A. Sladkova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1962, pp 336-341.

Consultants Bureau

Sci
Dec 62

212,182

A Study of the Behavior of Borophosphate Catalysts
in the Dehydration Reaction of a Mixture of
Pyrocatechol and ~~METHANOL~~ Methanol, by L. Kh. Freidlin,
V. Z. Sharf, et al, 5 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 2,
1961, pp 228-234.

CB

Sci
Jun 62

200,109

Study of the Effect of the Structure of Unsaturated
Organosilicon Compounds on Their Hydrogenation
Rates, by L. Kh. Freidlin, I. F. Zhukova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 7, 1961, pp 1269-1274.

CB

Sci

Jun 62

200,192

Alkylation of Normal Paraffins with Olefins
at High Temperatures and Pressures by,
L.Kh. Freidlin, N.M. Nazarcva, A.I. Palid, ⁶pp.

RUSSIAN, per, Iz Nk Nauk SSSR, Otdel Khim Nauk,
No 4, 1961, pp. 714-721.

CB

Sci
April 62

211,448

The Deactivation of Raney Nickel Catalyst by Water Vapor and the Increase in Its Stability by Means of Promoters, by L. Kh. Freidlin, I. F. ~~Zhuk~~ Zhukova, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 1, 1961, pp 112-117.

CB

Sci
Jun 62

200,248

Investigation of on the Activity and Selectivity
of Cobalt Catalysts in Hydrogenation, by N. V.
Borunova, L. Kh. Freidlin, 4 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol II, No 3,
1961, pp 462-466.

CB

201,768

Sci

Jan 62

Catalytic Reduction of Adipic Acid Dinitrile to
ε -Aminocapronitrile, by L. Kh. Freidlin, 5 pp.

RUSSIAN, per, Zhur Prii Khim, Vol XXXII, No 7,
1959, pp 1600-1604.

CB

Sci

Aug 60

122,388

Selective Reduction of Adiponitrile to ϵ -Aminocapronitrile on a Nickel Boride Catalyst. *Iz. Khim. Priladlin*, T. A. Sladkova, 5 PP.
RUSSIAN, per *Iz Ak Nauk SSSR*, Otdel Khim Nauk,
No 1, 1961, pp 151-156.
CB

198,022

Sci
Apr 62

Catalytic Alkylation of Isobutane with Ethylene Under
Pressure at High Temperatures, by L. Kh. Freidlin, A. A.
Balandin, pp 4

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, 1960, pp 4 409-412.

Sci
May 62

CB

195,349

Selective Deactivation of a Phosphate Catalyst by
Caustic Alkali in the Dehydration of Ethanol, by
L. Kh. Freidlin, V. Z. Sharf, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No
1959, pp 2042-2043.

CB

Sci -
May 61

153, 098

Reactivity of Halogenobenzenes in Catalytic
Hydrolysis in the Vapor Phase, by L. Kh. Freidlin,
A. A. Balandin, G. A. Fridman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
1945, pp 655-663.

OTS 61-18882

Sci

Mar 62

Int Vol VII, No 2

189,552

Kinetics of the Dehydration of Alcohols Over
Tricalcium Diphosphate, and the Deactivation of
the Latter by Organic Bases, by L. Kh. Freidlin,
V. Z. Sharf, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1960, pp 1861-1867.

CB

172, 757

Sci

Oct 61

Mechanism of the Formation of Secondary
Amines by Catalytic Hydrogenation of
Adiponitrile, by L.Kh. Freidlin, T.A.
Sladkova.

RUSSIAN, per Vysokomolek. Soedin. 1962,

pp 229-232

GB 39 ~~LT~~ LT 2451

L. Kh. Freidlin

Sci -
Aug 67

336-396

Freidlin, L. Kh. and Gorshkov, V. I.
ZINC CATALYSIS OF HYDROGENATION REACTIONS.
[1963] 6p
Order from ATS \$8.25

ATS-87Q72R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1960,
v. 131, no. 5, p. 1109-1112.

DESCRIPTORS: *Zinc, *Catalysts, *Hydrogenation,
Chemical reactions.

TT-64-12057

I. Freidlin, L. Kh.
II. Gorshkov, V. I.
III. ATS-87Q72R
IV. Associated Technical
Services, Inc.,
East Orange, N. J.

00809

(Chemistry--Physical, TT, v. 11, no. 3)

Office of Technical Services

Freidlin, L. Kh. and Fridman, G. A.
CATALYTIC [SUBSTITUTION] OF HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES. IV. VAPOR-
PHASE HYDROLYSIS OF o- AND p-CHLOROPHENOLS
AND o- AND p-DICHLOROBENZENES. [29 Oct 52]
[19p] 14refs

Order from OTS or SLA \$1. 60

63-18674

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1949, no. 3, p. 317-325.

DESCRIPTORS: *Benzenes, *Chlorides, *Phenols,
Hydroxyl radicals, Hydrolysis, Catalysis, Substitution
reactions, Halogens, Insecticides.

The possibility of vapor-phase hydrolysis of o- and
p-chlorophenols and o- and p-dichlorobenzenes was
investigated and the influence of ring substituents is de-
monstrated. The catalytic character of the process is
(Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18674

1. Title: Dichlorobenzenes
2. Title: Chlorophenols
- I. Freidlin, L. Kh.
- II. Fridman, G. A.
- III. Title: Vapor . . .
- IV. Trans-MT-52-50

00415

Office of Technical Services

Freidlin, L. Kh., Neimark, I. E., Fridman, G. A.,
Sheinfain, R. Yu., and Khatsset, F. L.
RELATION BETWEEN CHARACTER OF POROSITY
OF SILICA GEL AND ITS CATALYTIC PROPERTIES.
[1963] 21p 7 refs
Order from OTS or SLA \$2.60 63-18675

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1950, no. 5, p. 521-530.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels, Porosity, Catalysis, Chemical reactions, Benzenes, Chlorides.

The interrelations among the porous structure of silica gel, its catalytic activity, its specificity, and its thermal stability in the reaction of vapor-phase hydrolysis of chlorobenzene is investigated. (Author)

(Chemistry--Organic, TT, v. 10, no. 11)

63-18675

I. Freidlin, L. Kh.
II. Neimark, I. E.
III. Fridman, G. A.
IV. Sheinfain, R. Yu.
V. Khatsset, F. L.

00416

Office of Technical Services

Freidlin, L. Kh., Neimark, I. E., Fridman, G. A.,
and Sheinfain, R. Yu.
PROMOTING OF SILICA GELS OF DIFFERENT
POROSITIES. [1963] 18p 6refs
Order from OTS or SLA \$1.60

63-18676

Trans. of Akademiya Nauk SSSR. Otdelenie Khimich-
eskikh Nauk. Izvestiya, 1951, no. 1, p. 86-94.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels,
Porosity, Copper, Catalysis, Chemical reactions,
Benzenes, Chlorides.

The influence of copper upon the catalytic properties of
silica gels of various porosities was investigated.
Apart from its promoting action, copper regenerates
silica gel poisoned by mineral admixtures, enhances its
thermal stability and selectivity, and overcomes the
diffusional retardation of the reaction. (Author)
(Chemistry--Organic, TT, v. 10, no. 11)

63-18676

I. Freidlin, L. Kh.
II. Neimark, I. E.
III. Fridman, G. A.
IV. Sheinfain, R. Yu.

Office of Technical Services.

Freidlin, L.Kh. and Sharf, V.Z.
ÉTUDE, À L'AIDE D'UN INDICATEUR, DE L'ACIDITÉ DU CATALYSEUR À PHOSPHATE ET DE LA FAÇON DONT ELLE EST MODIFIÉE PAR LA TREMPÉ (Issledovanie Indikatornym Metodom Kislotnosti Fosfatnogo Katalizatora i ee Izmeneniya Pri Prokalivanii) (Investigation of the Acidity of a Phosphate Catalyst and its Change during Firing by an Indicator Method) 11p. (Foreign text included) 7refs. CNRS-VIII bis 630. Order from OTS, ETC or CNRS \$0.80 TT-62-28286

Trans. in French of *Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1960, no.6, p.1128-1130.

DESCRIPTORS: *Catalysts, Calcium compounds, *Phosphates, Acids, Hydrolysis.

(Chemistry--Inorganic, TT, v.11, no. 6)

TT-62-28286

I. Freidlin, L.Kh.
II. Sharf, V.Z.
III. CNRS-VIII bis 630
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

DD

Freidlin, L. Kh., Balandin, A. A. and others.
CONVERSION OF ARYL HALIDES AND ELIMINATION
OF THE AROMATICALLY BOUND HALOGEN WITH
STEAM. [1963] 15p. 9 refs.
Order from OTS or SLA \$1.60 63-18252

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1946, no. 4, p. 439-446.

DESCRIPTORS: *Benzene derivatives, *Halides,
*Chlorides, *Elimination reactions, *Steam, *Catalysis,
*Copper catalysts, Chemical reactions.

A new course was found for the catalytic reaction of
the interaction of aryl halides with steam, which leads
to the elimination of the halogen. A scheme of the
process is proposed which allows one to explain and
predict a number of its characteristics. The influence
of various factors on the reaction was investigated.

(Author)
(Chemistry--Physical, TT, v. 10, no. 11)

63-18252

I. Title: Phenyl halides
I. Freidlin, L. Kh.
II. Balandin, A. A.

63-18252

Office of Technical Services

Kinetics of the Hydrogenation of Cyclopentadiene
and Cyclopentene Over Raney Nickel, by L. Kh.
Freidlin, B. D. Polkovnikov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, 1959, pp 1106-1110.

CB

Sci

157, 917

Jun 61

Formation of Nitrogen-Containing Heterocycles
in the Catalytic Hydrogenation of Succinonitrile
and Phthalonitrile, by L. Kh. Freidlin, T. A.
Sledukova, 3 FP.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1959, pp 1859-1861.

CB

157,893

Sci

Jun 61

61-18219

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES.
I. CATALYTIC ACTIVITY OF SILICA GELS AND
THEIR INACTIVATION. [1961] 9p. 17 refs.
Order from OTS or SLA \$1.10 61-18219

Trans. of Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk. Izvestiya, 1945 [no. 1]
p. 53-60

DESCRIPTORS: Benzenes, Chlorides, Hydrolysis,
Phenols, Silicon compounds, Dioxides, *Gels,
*Catalysis.

The catalytic activity of silica gels in vapor phase
hydrolysis of chlorobenzene and their inactivation was
studied. Silica gel prepared according to Okatov was
found to possess a considerable catalytic activity in
this process. The yield of phenol in its presence
(Chemistry--Organic, TT. v. 6, no. 6) (over)

- I. Freidlin, L. Kh.
- II. Balandin, A. A.
- III. Title: Catalytic...

Office of Technical Services

On the Selectivity of Action of Zinc Catalyst in
Hydrogenation Reactions of Mono-and Diolefin
Hydrocarbons, by L. Kh. Freidlin, V. I. Gorshkov,
4 pp.

60,

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 4,
1960, pp 593-596.

CB

Sci

172,770

Oct 61

Catalytic Hydrogenation of Dimethylvinylethynylcarbinol.
by L. Kh. Freidlin, B. D. Polkovnikov. V. I. Gorshkov,
7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, 1961, pp 1120-1126

CB

200, 725

Sci
Apr 62

Freidlin, L. Kh., Balandina, A. A., Fridman, G. A.,
and Lebedeva, A. E.

HYDROLYSIS OF CHLOROBENZENE WITH WATER
VAPOR IN PRESENCE OF SILICA-GEL CATALYSTS.

[1963] 15p 5refs

Order from OTS or SLA \$1.60

63-18677

Trans. of Khimicheskaya Prom[ishlennost'] (USSR)
1945 [no. 12, p. 8-11].

DESCRIPTORS: *Benzene, *Chlorides, *Hydrolysis,
Silicon compounds, Gels, Dioxides, Catalysts,
Additives.

(Chemistry--Organic, TT, v. 10, no. 10)

63-18677

- I. Title: Phenyl chloride
- I. Freidlin, L. Kh.
- II. Balandina, A. A.
- III. Fridman, G. A.
- IV. Lebedeva, A. E.

1252438

Office of Technical Services

Selective Hydrogenation of Butynediol into
Butenediol on a Nickel Skeleton Catalyst,
by L. Kh. Freidlin, A. A. Balandin, I. F.
Shukova, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I,
No 3, 1960, pp 447-454.

CB

168,553

Sci
Sep 61

Irreversible Catalysis and the Consecutive
Character of the Hydrogenation of Unsaturated
Bonds in 1,3-Cyclohexadiene on a Skeletal Nickel
Catalyst, by L. Kh. Freidlin, B. D. Polkovnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1959, pp 721-726.

ATS RJ-2094

Sci - Chem

May 60

115,388

Preparation of p-Xylylenediamine by Catalytic Reduction
of Terephthalonitrile, by L. Kh. Freidlin, A. A.
Balandin, E. A. Sladkova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 5, 1957,
pp 880-.

Consultants Bureau

Sci - Chemistry
Jul 58

66,780

The Kinetics and Sequence of Hydrogenation of Bonds
in Peroxide Compounds Over a Nickel Catalyst, by
A. A. Balandin, N. V. Nikiforova, L. Kh. Freidlin,
6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 4,
1957, pp 649-652.

Consultants Bureau

Sci - Chemistry
Jul 58

66,967

Vapor-Phase Hydration of Propylene Oxide Over
Tricalcium Phosphate, by L. Kh. Freidlin, V. Z.
Sharf; 5 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1960 pp 182-187

CB

145,372

Sci
Apr 61

The Effect of Water Vapour on the Structure and
Activity of Raney-Nickel Catalyst, by V. D.
Krylov, L. Kh. Freidlin, I. F. Zhukova, 3 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIII, No 11,
1959, pp 2559-2563.

Cleaver-Hume Press

Sci

Aug 60

123,655

Mechanism of the Deactivation of Nickel Catalysts
by Steam Under Pressure, by L. Kh. Freidlin,
A. A. Balandin, N. V. Borunova, A. E. Agronomov,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 8, Aug 1956, pp 913-922.

Consultants Bureau

Sci - Chemistry
Jul 57

49,403

Stagewise Character of the Hydrogenation of the
Double Bonds of Cyclopentadiene Over Raney
Nickel, by L. Kh Freidlin, B. D. Polkovnikov,
8 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1956, pp 1171-1179.

Consultants Bureau

Sci - Chemistry
Jan 58

57,989

Preparation of Hexamethylenediamine by the
Continuous Hydrogenation of Adiponitrile on a
Nickel Catalyst, by L. K. Freidlin, A. A. Balandin,
K. G. Rudneva, T. A. Sladkova, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
pp 166-173, 1957.

SLA R-1619

Sci - Chem
Aug 58

70,523

Investigation of Selectivity of Catalyst Action.
PT. 2. Reduction of Mesityl Oxide on Copper and Zinc
Copper Catalysts, by L. Kh. Freidlin, A. S. Sultanov
M. F. Abidova, 4 pp.

RUSSIAN, per. Ark. Nauk SSSR. Otdel Khim Nauk, Invest.
No 5, 1958, pp 640-642.

Assoc Tech Sr
79K27R

Sci - Chem
Apr 59
CIB, V. 1, No 5

86,170

Study of the Selective Action of Catalysts.
Part 1. Reduction of Mesityl Oxide and
Crotonaldehyde Over a Zinc Catalyst, by
L. M. Freidlin, et al.

KRECIAN, per, - Is Ak Nauk SSSR, Otdel Khim
Nauk, No 3, 1958, pp 378-380.

Assoc Tech Serv EJ-1397
" " " 1958

Ref - Chem

Apr 59

85, 284

Catalytic Alkylation of n-Heptane With Propylene
and n-Butane With Butylene at High Temperatures
and Pressures, by ¹⁶ L. Kh. Freidlin, A. A.
Maladin, M. M. Kazarova, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CIX,
No 1, pp 105-108. Jul/Aug 1956

Consultants Bureau

Sci - Chem

56,617

Dec 57

Effect of Steam and Compression Treatments on the
Macrostructure and Catalytic Activity of Alumina,
by I. E. Neimark, L. Kh. Freidlin, A. I.
Rastrenenko, N. V. Borunova, 6 pp.

RUSSIAN, no per, Iz Ak Nauk, Otdel Khim Nauk,
No 7, 1956, pp 784-789.

Consultants Bureau

Sci - Chem
May 57

47, 216

Kinetics of the Dehydration of Alcohols in Presence
of Tricalcium Phosphate, by L. Kh. Freidlin,
A. M. Levit, 8 pp.

Full translation.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, Jan-Feb 1952, pp ~~163-171~~ 163-171.

Consultant Bureau

USSR

Scientific - Chemistry

Aug 53 CTS

4494

Hydrogenation of 2-Ethylanthraquinone Over Raney
Nickel, by L. Kh. Freidlin, E. F. Litvin, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1960, pp 734-738.

CB

Sci

May 62

194,448

The reaction of Nickel Oxide with Alumina in Steam
and the Effect of Steam on the Properties of a Nickel -
Alumina Catalyst, by L. Kh. Freidlin, N. V. Borunova,
4 pp.

RUSSIAN, per, Zhur Fiz Khim, No 11, 1961, pp 2458-2464.

Cleaver-Hume Press

Sci

Aug 62

213,700

Activity and Selectivity of a Zinc Catalyst in the
Hydrogenation of an Acetylenic to an Ethylenic
Bond, by L. Kh. Freidlin, V. I. Gorshkov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1960, pp 739-743.

CB

Sci

May 62

194,449

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF A HALOGEN BY A
HYDROXYL IN THE AROMATIC SERIES. II. PRO-
MOTERS OF SILICA GEL. [1961] 8p. 10 refs.
Order from OTS or SLA \$1.10

61-18887

Trans. of Akademiya Nauk SSSR. Otdelenie Khimi-
cheskikh Nauk. Izvestiya, 1945, p. 375-383.

DESCRIPTORS: *Benzenes, *Chlorides, Chemical
reactions, *Silicon compounds, *Dioxides *Gels,
Calcium compounds, Barium compounds, Magnesium
compounds, Catalysts, Catalysts, *Halogens, *Hydrox-
ides, Substitution reactions.

Tests of the effect exerted by various salts on the
activity of silica gel in vapor phase conversion of
chlorobenzene at 450-600° revealed that these addi-
tions almost invariably reduce the catalytic activity of
silica gel. Some salts, such as lithium chloride, in-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-18887

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Promoters...

Office of Technical Services

Catalytic Inertness of Amorphous Nickel in the Hydro-
genation of Benzene and the Dehydrogenation of
Cyclohexane, by A. M. Rubinshtein, L. Kh. Freidlin,
N. V. Borunova, 2 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk,
No 5, Jul/Aug 1955, pp 766-767. CIA C 41476
4

Consultants Bureau

Scientific - Chemistry
Mar 56 CTS/dex

32,629

Stability of Skeletal Nickel Catalyst at Elevated
Temperature, by L. Kh. Freidlin, K. G. Rudneva,
4 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 6, USSR, Nov/Dec 1953, pp 1111-1115.
CIA D 151103

Consultants Bureau

Scientific - Chemistry

CTS 66/Mar 55

21,816

Effect of Compression on the Porosity, Catalytic
Properties, and Chromatographic Activity of Silica
Gel, by L. Kh. Freidlin, L. F. Vereshchagin, I. E.
Neimark, I. U. Mumanov, R. Yu. Sheinfain, 5 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, USSR, 1953, pp 945-950. CIA 151001

Consultants Bureau
KJ-205

Scientific - Chemistry

20,568

CTS 64/Jan 55

Relationship Between the Activity and Fine Crystal-
line Structure of Raney Nickel Catalyst, by
V. D. Krylov, L. Kh. Freidlin, K. G. Rudnaya,
6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1957, pp 546-553.

Consultants Bureau

Sci. - Chem

May 59

88, 099

Hydrogenation of Cyclopentadiene in Binary
Mixtures With Unsaturated Hydrocarbons Over
Palladium and Platinum Blacks, by L. Kh. Freidlin,
B. D. Polkovnikov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 5, 1957, pp 541-545.

Consultants Bureau

Sci - Chem

May 59

88,098

Composition of the Products of Cyclohexanol
Dehydrogenation Over a Zinc Catalyst and
Conversion of the Resultant Still Residue Into
Cyclohexanone, by L. Kh. Freidlgin, V. Z.
Sharf, Z. S. Smolyan, 4 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXII, No 4,
1959, pp 901-904.

Consultants Bureau

Sci

117,880

Research on the Kinetics of the Dehydration of
Formic Acid with Silica Gel. by L.Kh. Freidlin and
A.M. Levit, 10 pp

RUSSIAN no per Zhur Obshch Khim, Vol XXI, No 7
USSR Jul 1951, 1255-1264

Consultants Bureau Vol 21 July 1951

18644

(R)
Vapor-Phase Hydrolysis of Halobenzenes Over a Promoted
Phosphate Catalyst; by L. Kh. Freidlin, A. A. Balandin,
G. A. Fridman, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1958, pp 145-151.

Consultants Bureau

Sci - Chem

May 59

86, 885

Kinetics of the Catalytic Reduction of
Peroxides and Hydroperoxides, Communication 2.
Hydrogenation of Benzoyl Peroxide, tert-
Butyl Peroxybenzoate, 2-cyclo-hexen-1-yl-
Hydroperoxide, by A. A. Balandin, L. Kh.
Freidlin, W. V. Nikiforova, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1958, pp 133-144.

Consultants Bureau

Sci - Chem
May 59

86, 886

Selectivity of Action of Nickel Deposited on Aluminum
Oxide Catalysts, by N. V. Borunova, A. A. Balandin,
L. Kh. Freidlin, 4 pp.

RUSSIAN, per, Zhur Obshch.Khim, Vol XXIX, No 5,
1959, pp 1409-1412.

Consultants Bureau

Sci

Jul 60

120,430

Freidlin, L. [Kh.] Belandin, A. A., Lebedeva, A. I.,
Fridman, G. A.

INVESTIGATION OF THE CATALYTICAL SUBSTITU-
TION OF HALOGEN BY HYDROXYL IN HYDRO-
CARBONS OF AROMATIC SERIES. [1963] [12p]
17refs. N64-11004.

Order from OTS, SLA, or BTC \$1.60 TT-63-20182

Trans. of [Akademiya Nauk SSSR. Otdelenie
Khimicheskikh Nauk]. Izvestiya, 1947 [no. 5]
p. 515-522. (Abstract available)

DESCRIPTORS: *Phenols, Synthesis (Chemistry),
*Benzenes, *Chlorides, Substitution reactions,
*Catalysis, *Copper catalysts, Silicon compounds,
Dioxides, Gels, Purification.

Reaction of catalytic conversion of chlorobenzene into
phenol with steam in the presence of silica gel impreg-
nated with various copper compounds was studied. A
(Chemistry--Organic, TT, v. 11, no. 7) (over)

TT-63-20182

- I. Title: Phenyl chloride
- I. Freidlin, L. Kh.
- II. Belandin, A. A.
- III. Lebedeva, A. I.
- IV. Fridman, G. A.
- V. N64-11004

11273545

Office of Technical Services

Selectivity of Catalysts. Communication 3. Hydrogenation of Isoprene Over Raney Nickel. by L. Kh. Freidlin, A. A. Balandin, I. F. Zhukova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9, 1959, pp 1640-1645.

CB

Sci -
May 61

152,806

Hydrolytic Scission of 2-Cyclohexylideneacyclo-
hexanone into Cyclohexanone, by L. Kh. Freidlin
V.Z. Sharf, 3 pp.

RUSSIAN, Izv. Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1957, pp 512-514.

Consultants Bureau

Sci - chem

May 59

87,214

Hydrogenation of Cyclopentadiene 1. Binary
Mixtures with other Unsaturated Hydrocar-
bons in Presence of Raney Nickel, by
L. Kh. Freidlin, B. D. Polkovnikov, 8 pp.

RUSSIAN, per, Iz AK Nauk SSSR, Otdel
Khim Nauk, No 11, 1956, pp 1312-1319.

Consultants Bureau

Sci - Chem

Jun 58

65,470

Catalytic Hydrogenation of Silicon-Containing
Nitriles and the Fiber-Forming Properties of Poly-
amides Based on the Amines Obtained, by A. D.
Petrov, L. Kh. Freidlin, G. I. ~~Kudryavtsev~~
Kudryavtsev, T. A. Gladkova, V. N. Vdovin, T. I.
Shein, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIX, No 5,
1959, pp 1064-1067.

CB

Sci
Oct 60

129,975

✓
Selective Action of Catalysts Prepared From
H Nickelous Oxide Treated With Steam Under
Pressure, by L. Kh. Freidlin, A. A. Balandin,
N. V. Borunova, 4 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, No 1, Jan/Feb 1956, ~~XXXXXX~~ pp 128-129.
CIA 542767 C, reel 3.

Consultants Bureau

Sci - Chemistry

37,582

Aug 1956

Activity of a Skeletal Iron Catalyst in Hydrogenation
Reactions, by L. Kh. Freidlin, K. G. Rudneva, A. S.
Sultanov, 4 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, USSR, May-Jun 1954, pp 511-516. CIA D 151316

Consultants Bureau

Scientific - Chemistry

CTS 68/May 55

23,769

Chemical Method of Investigating the Metal -- Hydrogen
Nature of a Skeletal Nickel Catalyst, by L. Kh.
Freidlin, K. G. Rudneva, 5 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 3, USSR, May-Jun 1954, pp 491-496. CIA D 151316

Consultants Bureau

Scientific - Chemistry

23,766 CTS 68/May 55

Properties of a Nickel Catalyst Prepared by the
Decomposition of a Double Magnesium Nickel Formate,
by L. Kh. Freidlin, A.A. Balandin, K.G. Rudneva,
6 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk,
No 4, 1957, pp 436-442.

Consultants Bureau'

Sci - Chem

May 1959

87,205

Mechanism of the Reduction of Allyl Alcohol
over Zinc and Zinc-Copper Catalysts, by
L. Kh. Freidlin, M. F. Abidova, A. S. Sultanov,
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 4, 1958, pp 498-499.

Consultants Bureau

Sci - Chem

Apr 60

112,292

Hydrolytic Cleavage of Mesityl Oxide and
Dealdolization of Diacetone Alcohol Over Tri-
calcium Phosphate, by L. Kh. Freidlin, V. Z.
Sharf, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1958, pp 1264-1270

Consultants Bureau

Sci

Apr 60

112, 179

Kinetics of the Catalytic Reduction of Peroxides and Hydroperoxides, III. Hydrogenation of 3-Methyl-1-butyne-3-Hydroperoxide and p-Nitrobenzoyl Peroxide, by A. A. Balandin, L. Kh. Freidlin, N. V. Nikiforova, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 7, 1959, pp 1177-1185.

CB

Sci.

Jul. 61

162,430

Selective Hydrogenation of the Acetylenic Bond in
2-Butyne-1,4-Diol to an Ethylenic Bond Over Nickel
Catalyst, by L. Kh. Freidlin, A. A. Balandin,
I. F. Zhukova, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXIV, No 3,
1959, pp 598-601.

Consultants Bureau

Sci

119,459

Jun 60

The Connection Between the Acid Nature of Tricalcium
Phosphate and Its Catalytic Activity in Hydrolysis
Reactions, by L. Kh. Freidlin, V. Z. Sharf,
4 pp.

RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CXXIV,
No 4, 1959, p 849-.

Consultants Bureau

119,468

Sci

Jun 60

Consecutive Hydrogenation of the Double Bonds of
1,3-Cyclohexadiene and Its Irreversible Catalysis
on Platinum and Palladium Blacks, by L. Kh.
Freidlin, B. D. Polkovnikov, Yu. P. Egorov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 5,
1959, pp 910-915.

CB

Sci

Jun 61

153,261

Selective Hydrogenation of Adiponitrile Over a Cobalt
Boride Catalyst; by B. D. Polkovnikov, L. Kh. Freidlin,
A. A. Balandin, 3 pp.

RUSSIAN, per: Iz Ak Nauk SSSR, Otdel Khim Nauk, No 8,
1959, pp 1488-1489.

CB

Sci -
May 61

152,777

Selective Reduction of ⁵¹Cyclopropyl Methyl Ketone
Over Zinc Catalysts, by L. Kh. Freidlin, A. P.
Meshcheryakov, V. I. Gorshkov, V. G. Glukhovtsev,
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 12, 1959, pp 2237-2238.

CB

Sci
Oct 60

130,342

Selective Hydrogenation of an Acetylenic Bond
Over a Zinc Catalyst, by L. Kh. Freidlin, V. I.
Gorshkov, T. K. Lavrovskaya, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 9,
1959, pp 1679-1680.

CB

Sci -
May 61

152,812

The Composition, Methods of Preparation, and Nature
of the Activity of Tricalcium Phosphate Catalysts,
by L. Kh. Freidlin, V. Z. Sharf, 8 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 2,
1960, pp 247-256.

CB

Sci
Jul 61

161,248

Method for Preparation of 2-Isopropylanthraquinone,
by A. A. Balandin, L. Kh. Freidlin, V. S. Rozina,
eta 1, 3 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 8,
1960, pp 1893-1896.

CB

S&I
Jul 61

161, 110

Effect of Compression on the Properties of
Dehydrogenation and Dehydration Catalysts, by
L. F. Vereshchagin, L. Kh. Freidlin, I. V. Numanov,
S. G. Kulikov, 6 pp.

Full translation

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, USSR, Jan/Feb 1954, pp 154-161. CIA D 151104

Consultants Bureau

Scientific - Chemistry

CTB 66/Mar 55

21,855

Diffusion Processes With Reflection and Problems
With a Directional Derivative on a Manifold with
a Boundary, by M. I. Froldin, 8pp

RUSSIAN, par, Teoriya Veroyatnostei i yeye Primeniya,
Vol VIII, No 1, 1963.

SIAM

Sci

Jan 64.

246,006

A Mixed Boundary Value Problem for Elliptic
Differential Equations of Second Order With a
Small Parameter, by M. L. Freidlin, 4 pp .

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIII, No 6,
1962, pp 1300-1303.

Amer Math Soc
Sov Math - Dok
Vol III, No 2

Sci - Math

Sep 62

211, 591

The Synthesis of α -Chloro- ω -Sulfocarboxylic
Acids, by R. Kh. Freidlina, B. V. Kopylova,
4 pp.

RUSSIAN, per, Iz, Ak Nauk SSSR, Otdel Khim Nauk,
No 11, 1961, pp 1985-1989.

CB

Sci

Jul 62

205,103

Rearrangement of Radicals in the Course of Reactions
of Thiols With Polyhalopropenes, by R. Kh. Freidlina,
A. B. Terent'yev, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII, No 4,
1961, pp 359-362.

CB

Sci

195,204

May 62

Disproportionation Reactions of Organic Compounds
Containing Zirconium, Titanium, and Iron, by
E. M. Brainina, R. Kh. Freidlina, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 9, 1961, pp 1595-1599.

CB

202,803

Sci
Jul 62

Synthesis and Properties of β -Halosallyl Compounds
of Mercury ^{by} R. Kh. Freidlina, F.K. Velichko, 4 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 1, 1961, pp 55-60

CB

198, 118

Sci
Apr 62

Use of Oxidation-Reduction Systems for the Initia-
tion of the Reaction of 1-Octene with Carbon
Tetrachloride

By R. Kh. Freidlina, E. Ts. Chukovskaya (p. 5)

RUSSIAN, per. Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 10, 1962, pp. 1783-1787

CB

Sci

343,109

Aug 63